

**Data sheet**

Touch Panel TP 604LC+ (62E-MHC0-CB)

## Technical data

|                  |                       |
|------------------|-----------------------|
| <b>Order no.</b> | <b>62E-MHC0-CB</b>    |
| Type             | Touch Panel TP 604LC+ |

**General information**

|          |   |
|----------|---|
| Note     | -   |
| Features | 4.3", TFT, 480x272 Pixel<br>Cortex-A8 processor, 1000MHz<br>256 MB work memory, 128 MB user memory<br>RS232, RS422/485, USB-A, Ethernet RJ45 (MPI/DP interface optional available)<br>Windows Embedded CE 6.0 Professional, Runtime Movicon CE Standard |

**Display**

|                         |                        |
|-------------------------|------------------------|
| Display size (diagonal) | 4.3 "                  |
| Display size (width)    | 95 mm                  |
| Display size (height)   | 54 mm                  |
| Resolution              | 272 x 480 / 480 x 272  |
| Aspect ratio            | 16:9                   |
| Type of display         | TFT color (64K colors) |
| MTBF Backlights (25°C)  | 30000 h                |

**System properties**

|                              |                        |
|------------------------------|------------------------|
| Processor                    | Cortex-A8 1000 MHz     |
| Operating system             | Windows CE 6.0 Prof.   |
| User software                | Movicon 11 CE Standard |
| Work memory                  | 256 MB                 |
| User memory                  | 128 MB                 |
| Available memory (user data) | 50 MB                  |
| SD/MMC Slot                  | yes                    |
| CF Card Slot Typ II          | -                      |
| CFast Slot                   | -                      |

**Time**

|                                     |  |
|-------------------------------------|--|
| Real-time clock buffered            | yes                                    |
| Clock buffered period (min.)        | 26 w                                   |
| Type of buffering                   | Manganese Rechargeable Lithium Battery |
| Load time for 50% buffering period  | 5 h                                    |
| Load time for 100% buffering period | 24 h                                   |
| Accuracy (max. deviation per day)   | 2 s                                    |

**Operating controls**

|                |                  |
|----------------|------------------|
| Touchscreen    | resistive        |
| Touch function | Single Touch     |
| Keyboard       | external via USB |
| Mouse          | external via USB |

**Interfaces**

|                               |                       |
|-------------------------------|-----------------------|
| MPI, PROFIBUS-DP              | optional              |
| MPI, PROFIBUS-DP connector    | -                     |
| Serial, COM1                  | RS232                 |
| COM1 connector                | Sub-D, 9-pin, male    |
| Serial, COM2                  | RS232 / RS422 / RS485 |
| COM2 connector                | Sub-D, 25-pin, female |
| Number of USB-A interfaces    | 1                     |
| USB-A connector               | USB-A (host)          |
| Number of USB-B interfaces    | -                     |
| USB-B connector               | -                     |
| Number of ethernet interfaces | 1                     |
| Ethernet                      | Ethernet 10/100 MBit  |
| Ethernet connector            | RJ45                  |
| Integrated ethernet switch    | -                     |
| Video connectors              | -                     |
| Audio connections             | -                     |

### Technical data power supply

|   |                       |
|---|-----------------------|
| Power supply (rated value)              | DC 24 V               |
| Power supply (permitted range)          | DC 20.4...28.8 V      |
| Reverse polarity protection             | yes                   |
| Current consumption (no-load operation) | 0.16 A                |
| Current consumption (rated value)       | 0.3 A                 |
| Inrush current                          | 75 A                  |
| $I^2t$                                  | 0.36 A <sup>2</sup> s |
| Power loss                              | 6 W                   |

### Status information, alarms, diagnostics

|                        |      |
|------------------------|------|
| Supply voltage display | none |
|------------------------|------|

### Mechanical data

#### Housing / Protection type

|                         |                |
|-------------------------|----------------|
| Material                | PC             |
| Mounting                | mounting clips |
| Protect type front side | IP 65          |
| Protect type back side  | IP 20          |

#### Dimensions

|             |                        |
|-------------|------------------------|
| Front panel | 140 mm x 116 mm x 6 mm |
| Rear panel  | 122 mm x 98 mm x 51 mm |

#### Installation cut-out

|                               |        |
|-------------------------------|--------|
| Width                         | 123 mm |
| Height                        | 99 mm  |
| Minimum                       | 2.5 mm |
| Maximum front panel thickness | 6 mm   |
| Net weight                    | 500 g  |

#### Environmental conditions

|                       |               |
|-----------------------|---------------|
| Operating temperature | 0 °C to 50 °C |
|-----------------------|---------------|

Storage temperature -20 °C to 60 °C

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**Certifications**

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UL certification yes

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KC certification -

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